

Title (en)  
PLURALITY OF SOLAR CELL MODULES, EACH OF WHICH IS COUPLED TO A VOLTAGE TRANSFORMER VIA A SWITCH ELEMENT

Title (de)  
MEHRZAHL VON SOLARZELLENMODULEN, DIE JEWEILS ÜBER EIN SCHALTELEMENT MIT EINEM SPANNUNGSWANDLER GEKOPPELT SIND

Title (fr)  
PLURALITÉ DE MODULES DE PILES SOLAIRES COUPLÉS À UN TRANSFORMATEUR DE TENSION PAR L'INTERMÉDIAIRE D'UN ÉLÉMENT DE COMMUTATION

Publication  
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Application  
**EP 06724221 A 20060411**

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Abstract (en)  
[origin: WO2006117061A2] The invention relates to a solar cell device comprising a plurality of solar cell modules (Z1, Z2, Z3, ..., Zn) whose voltage outputs (U<SUB>E1</SUB>, U<SUB>E2</SUB>, U<SUB>E3</SUB>, ..., U<SUB>En</SUB>) are respectively coupled to a voltage transformer (12) by means of a switch element (T1, T2, T3, ..., Tn), wherein said voltage transformer is preferably constructed in the form of an inverted converter or a step-up converter. The partial disconnections of the individual solar cell modules make it possible to avoid losses by the independent operation thereof. The voltage transformer (12) makes it possible to adapt an output voltage in a large extend. A microprocessor control (16) makes it possible to attain an optimal energy output of the integral system.

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